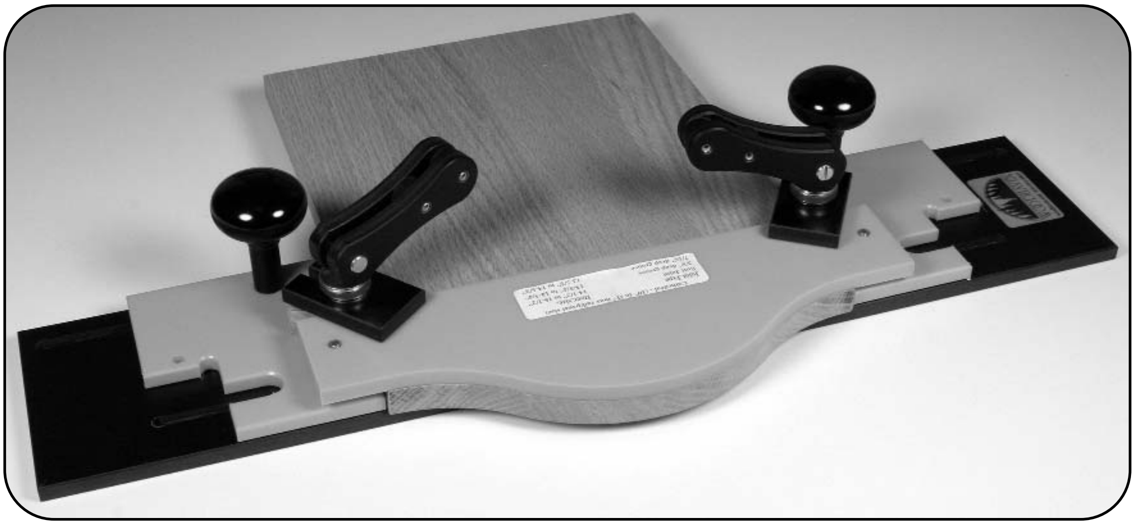
5430
Frame and Panel Master
Owners Manual

U.S. Patent #5,960,843

PLEASE READ CAREFULLY!



Shown with optional 6102 Kamtite Clamps

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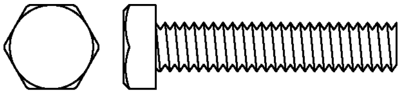
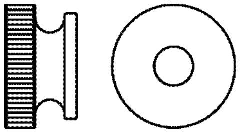
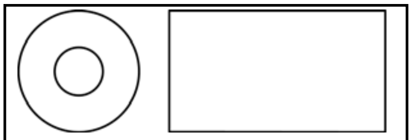
Parts List:



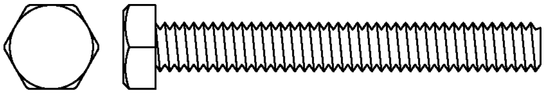
Qty	Part#	Description
2	HB040A	1-1/4" bolt



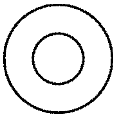
Qty	Part#	Description
2	5520	Brass knob



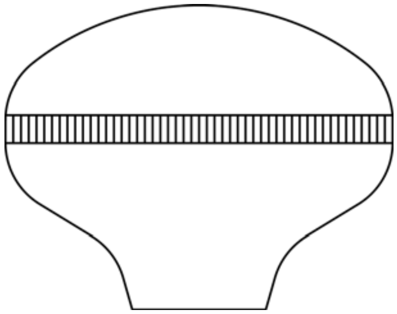
Qty	Part#	Description
2	PS012	1-1/8" spacer



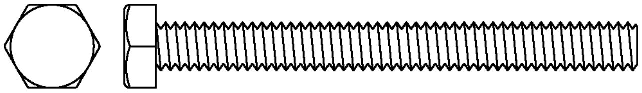
Qty	Part#	Description
2	HB055A	2" bolt



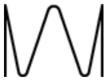
Qty	Part#	Description
4	WB002	1/4" washer



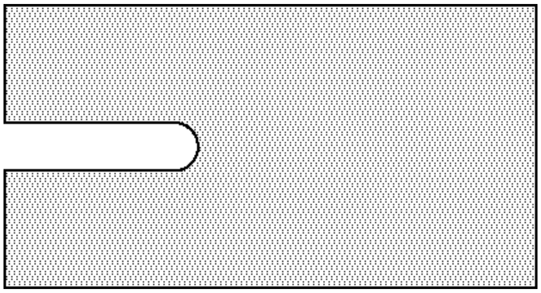
Qty	Part#	Description
2	5590	knob



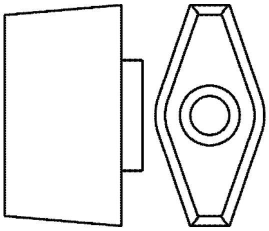
Qty	Part#	Description
2	HB085	2-1/2" bolt



Qty	Part#	Description
2	Spring3	spring

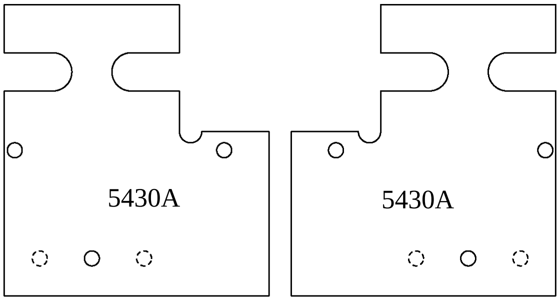


Qty	Part#	Description
2	4590A	Clamp plate

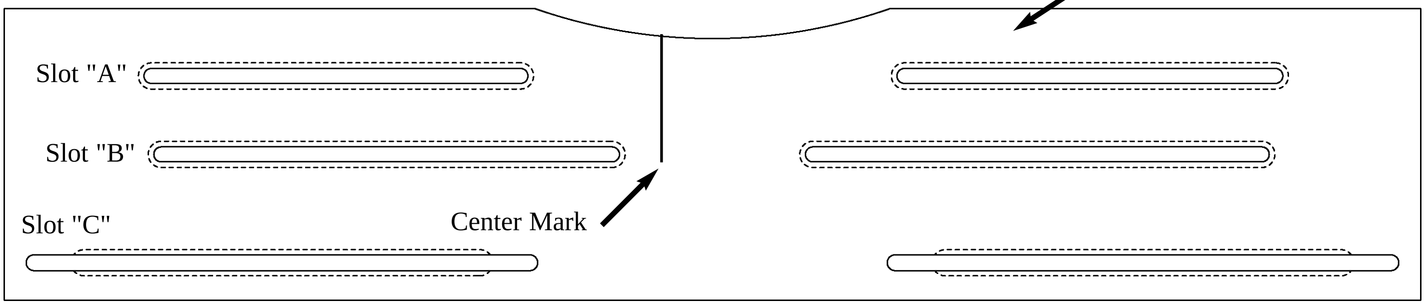


Qty	Part#	Description
2	5540	knob

Qty	Part#	Description
2	5430A	Indexing fences



Qty	Part#	Description
1	5430B	Base



BEFORE BEGINNING

Identify and verify that you have all the parts and hardware listed. Please note that this jig was designed to be used with the Woodhaven Door Templates only.

ASSEMBLE THE JIG

Lay out the base and the two Indexing Fences, with the pin side down, as shown. **See fig. 2.** For rail work, the indexing fences should be placed with their notched edges facing in. **See fig. 2.** This provides a notch for the rail to index against. For panel work,the indexing fences should be placed with their straight edges facing in and the notched edges facing out. **See fig. 3.** This allows the panel to hang out the bottom of the jig.

Install two 2" bolts ***(HB055A)*** (one on each side) through the bottom of the base, into slot "C". Install the two indexing fences on the bolts, making sure the indexing pins are riding in slot "C". Install a 1-1/8" long spacer ***(PS012)*** and a knob ***(5590)*** on the bolt. This serves as the handle for the jig, as well as the lock for the index fences.

Install two 1-1/4" bolts ***(HB040A)*** (one on each side) through the bottom of the base, into slot "A", followed by a 1/4" washer ***(WB002)***, a 1/4-20 brass knob ***(5520)*** and a spring ***(Spring3)***. These bolts are used to index a the Door Template. The springs lift the template off the work as you release the clamp pads. **See fig. 4**

Depending on how you setup the indexing fences (rail or panel setup - panel setup shown), the jig should now look similar to **fig. 5**

Insert a 2-1/2" hex bolt ***(HB085)*** through the bottom of the base in slot "B" (one on each side) and through a hole in the indexing fence nearest the work. The clamp plate ***(4590A)*** slips over the bolt and is tightened in place with a brass washer ***(WB002)*** and T-knob ***(5540)***. The clamp plate holds the template & work against the base. You supply a support block the same thickness as the stock being clamped. **See fig. 6.** You can double stick tape the support block to the clamp plate to prevent it from moving when changing parts. Our optional 6102 Kamtite Clamps take the place of the standard 5540 T-knobs. **See cover photo.**

DOOR TEMPLATES

Information about the Door Templates is covered in the directions that came with 5455 or 5465 Door Template Set. Review these directions now. You will not use the indexing fences that came with the 5455 or 5465 Door Template Sets when using the Frame & Panel Master.

fig. 6

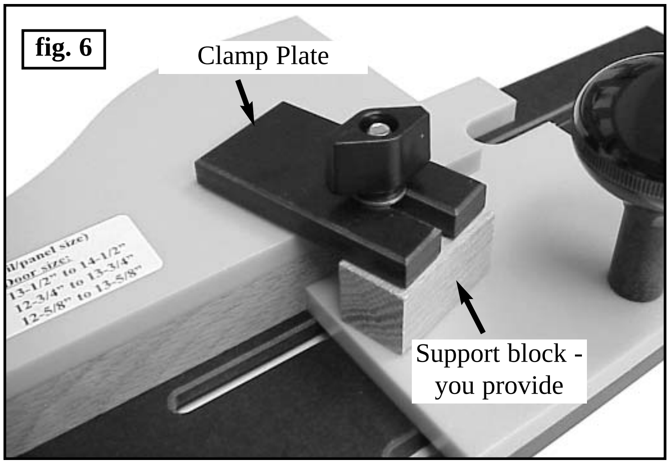


fig. 2 Notches facing IN for rail setup

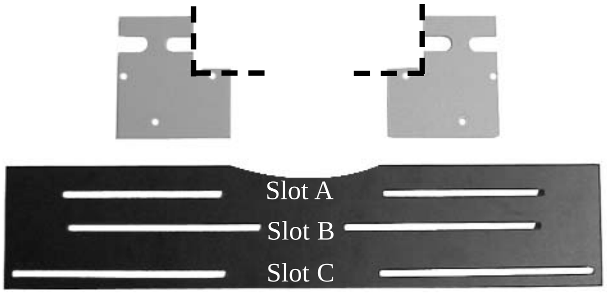


fig. 3 Notches facing OUT for panel setup

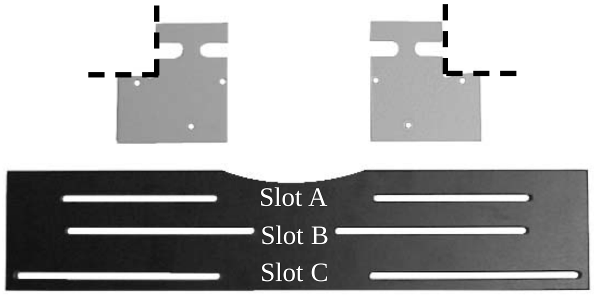
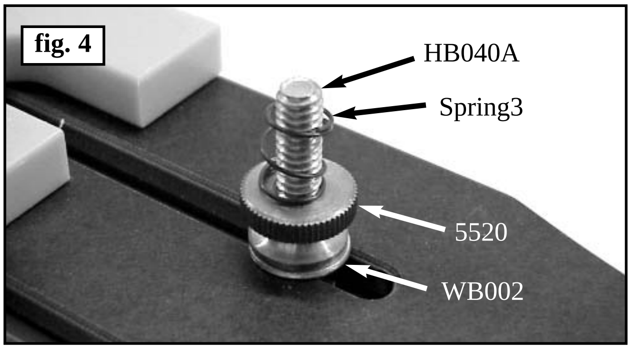


fig. 4



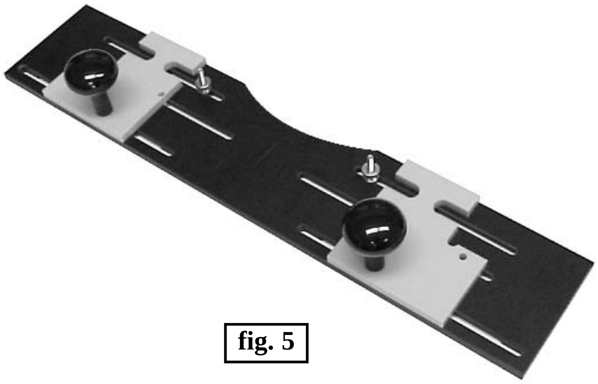


fig. 5

USING THE JIG - MARK & CUT RAIL PROFILE

Place the template on the template locating bolts. **See fig. 7**. Next, align the scribe mark on the template with the mark in the base. Tighten the brass knobs to secure the template locating bolts in position. Temporarily remove the template for the next step.

Place the rail on the base and in between the notches in the indexing fences. **See fig. 8**
Re-install the template on the template locating bolts and over the rail. **See fig. 9**

Adjust the indexing fences to center the rail on the template so there is an even amount of template overhanging the rail at each end.

Using the template as a pattern, draw a pencil line on the rail. Remove the rail and rough saw it to shape, staying approximately 1/8" away from the finished line. **See figs. 10 & 11**

Re-install the rail in the jig. Re-install the template on the template locating bolts. Clamp the template/rail to the base using the clamp pads. **See fig 6, pg 3.** Holding the jig by the feed handles, machine the rail to shape using a flush trimming bit. **See fig. 12**

Remove the machined rail and install another, or, if you have a second router setup, skip to the next page.

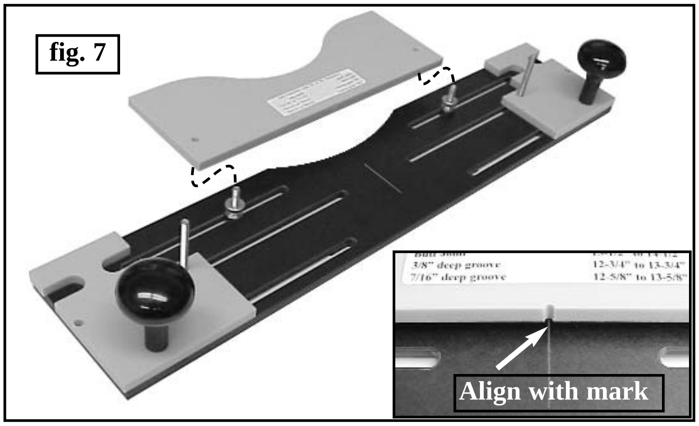
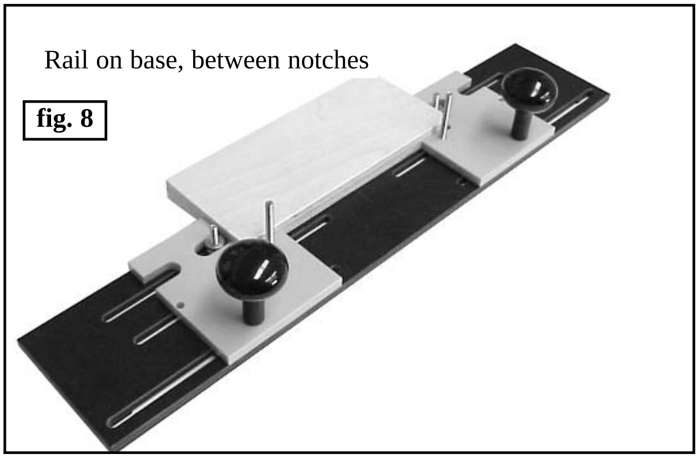

3/8" deep groove 12-3/4" to 13-3/4"
7/16" deep groove 12-5/8" to 13-5/8"

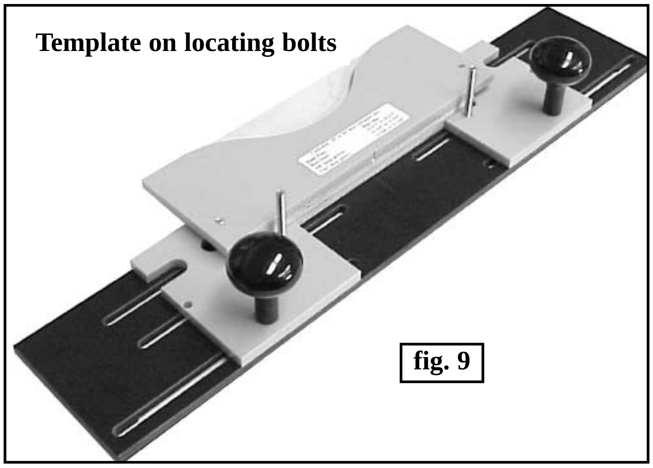
fig. 7

Align with mark



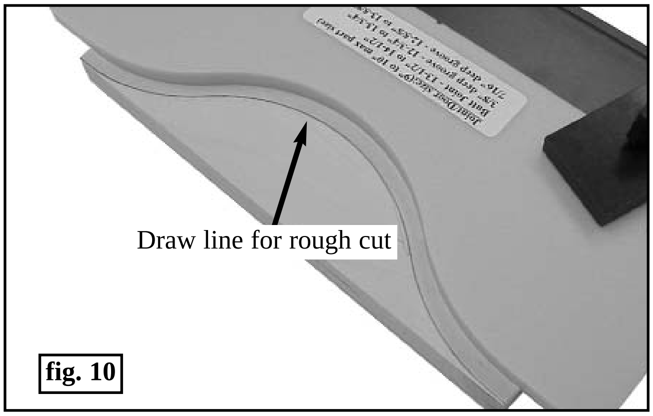
Rail on base, between notches

fig. 8



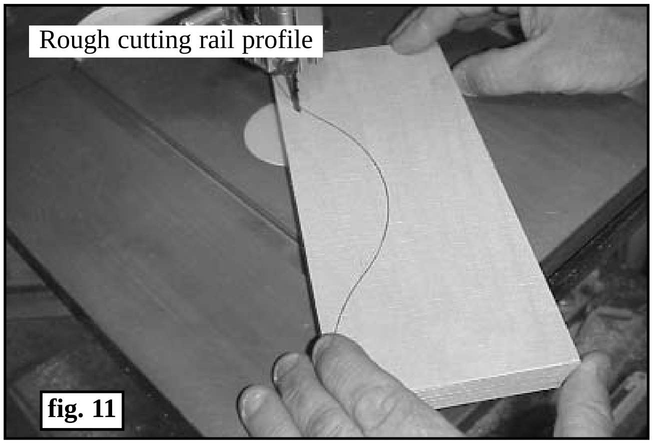
Template on locating bolts

fig. 9



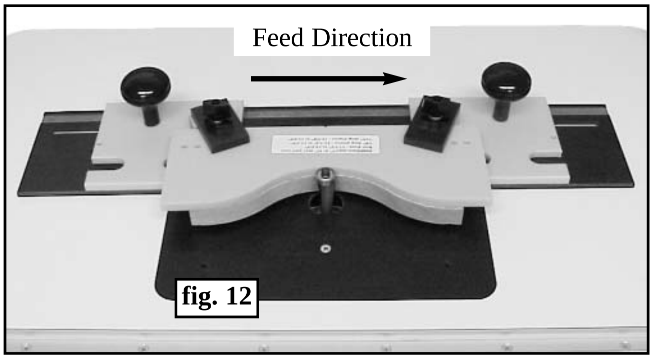
Draw line for rough cut

fig. 10



Rough cutting rail profile

fig. 11



Feed Direction

fig. 12

If you have a second router setup you can go directly from shaping the rail with a flush trim bit to machining the pattern without having to remove the rail between operations. **To do this you must have at least 1/8" of bearing riding on the template!** If you use 3/4" thick stock an additional spacer will not normally be necessary. If you are using 13/16" or thicker stock a 1/8" spacer should be installed underneath the bearing to increase the support area on the template. (order part #8118) **See figs. 13 & 14**

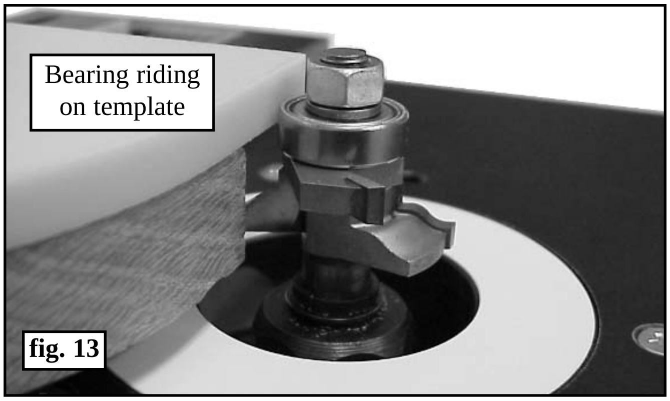
MARK & CUT PANEL PROFILE

Place the panel on the base and in between the straight edges of the indexing fences. **See fig. 15**

Place the template on the template locating bolts and over the panel **See fig. 16**

Adjust the indexing fences to center the panel on the template so there is an even amount of template overhanging the panel at each end.

Using the template as a pattern, draw a pencil line on the panel. Remove the panel and rough saw it to shape, staying approximately 1/8" away from the finished line.
See figs. 17 & 18



Bearing riding on template

fig. 13

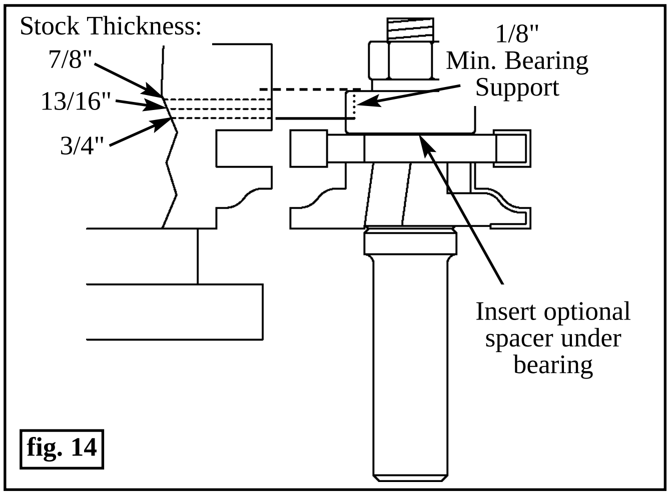


fig. 14

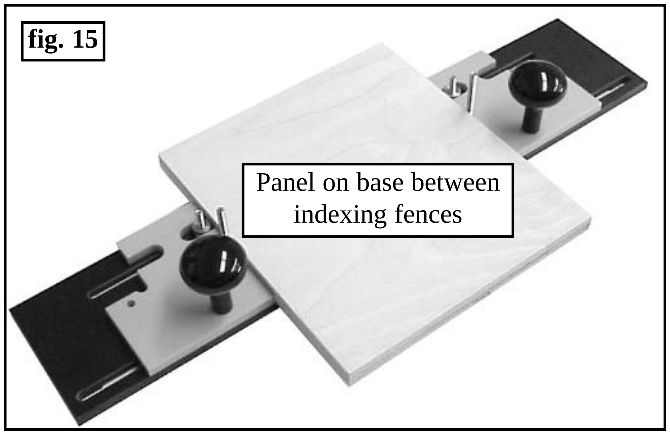


fig. 15

Panel on base between indexing fences

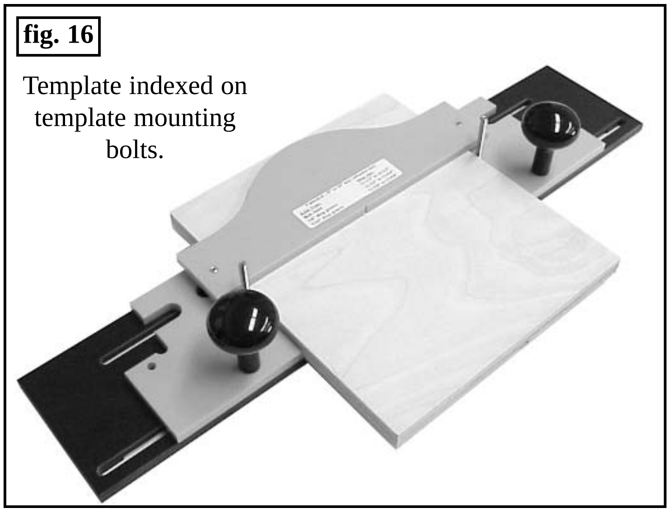


fig. 16

Template indexed on template mounting bolts.

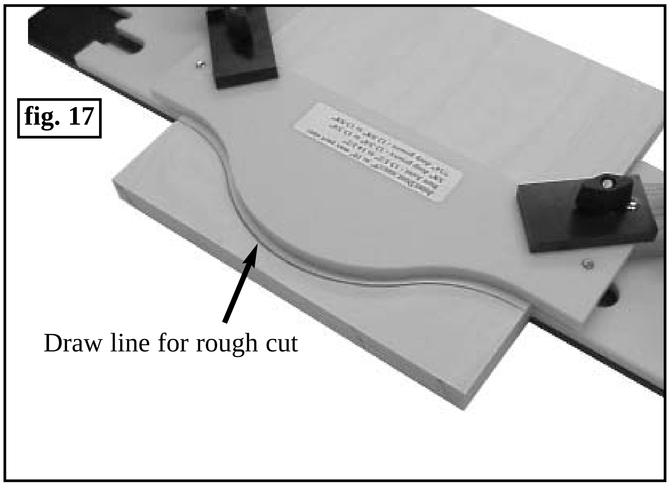


fig. 17

Draw line for rough cut

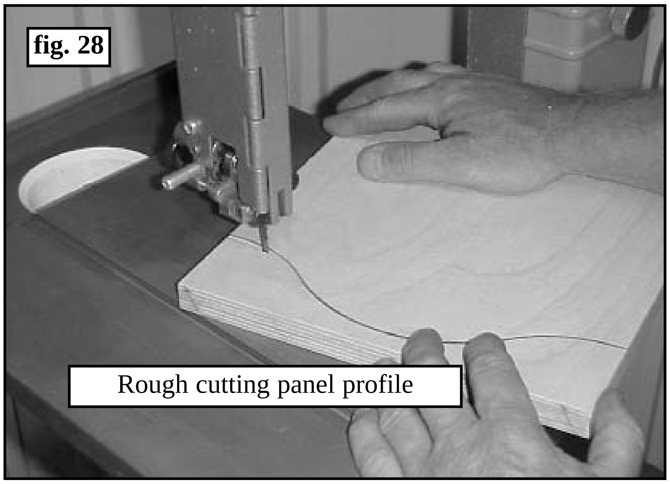


fig. 28

Rough cutting panel profile

Re-install the panel in the jig. Re-install the template on the template locating bolts. Clamp the template & panel to the base using the clamp pads and knobs.

Holding the jig by the feed handles, machine the panel to shape using a flush trimming bit. **See fig. 19.** Remove the machined panel and install another panel to be machined.

You can also use the Frame & Panel Master to hold the panel as you machine the raised panel profile into it. **This will work ONLY IF you install the work so it projects past the template at least 1-5/8" to prevent the bit from cutting into the base.** **See fig. 20.**

For best results, and optimum control, use a fence for support. Adjust the fence so that the highest part of the panel (the arch) is touching the fence face. This lets you slide along the fence, until the part has reached the bit. **See fig. 21.**

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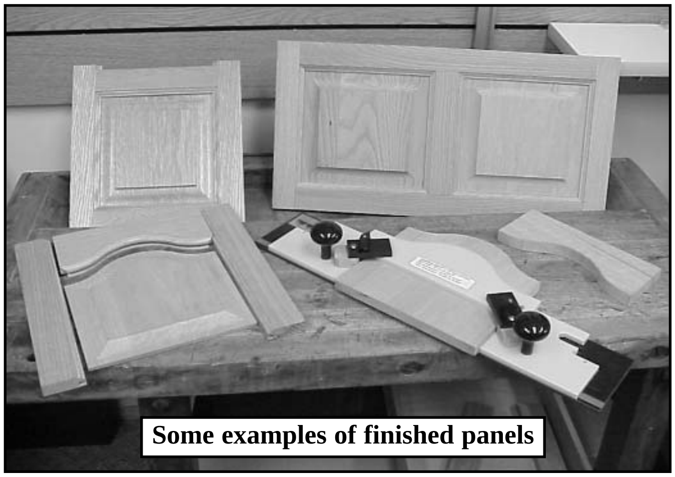


Some examples of finished panels

fig. 19

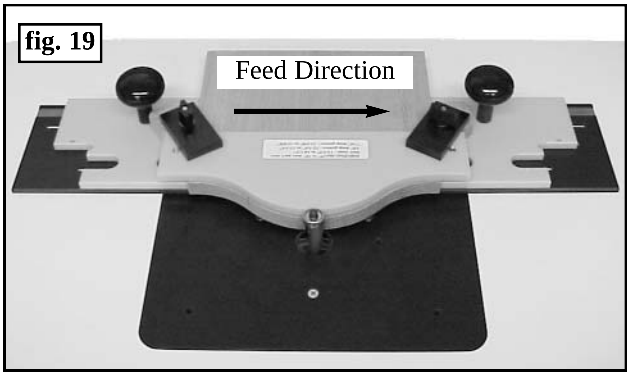


fig. 20

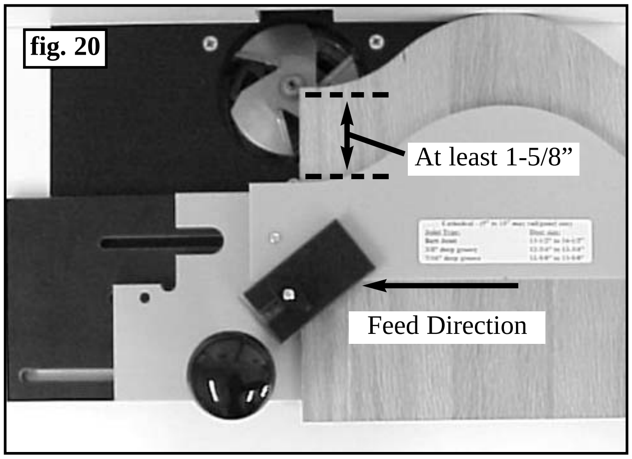
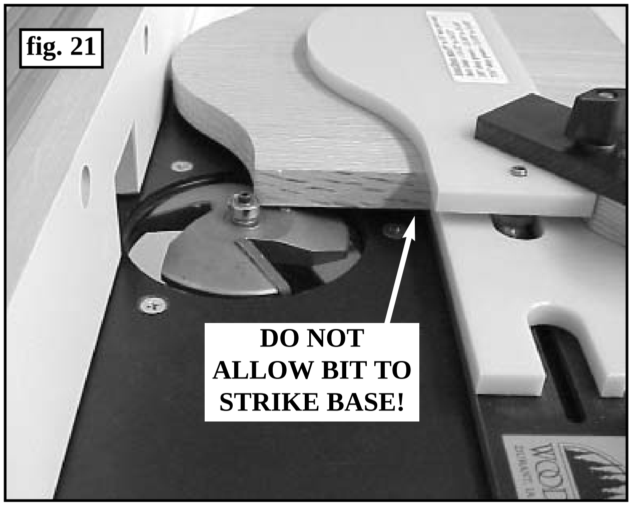


fig. 21



DO NOT ALLOW BIT TO STRIKE BASE!